ABBREVIATIONS

Δp (or pmf), proton motive force; **α-NPG**, p-nitrophenyl-α-D-galactopyranoside; **bp**, base pair(s); **BSA**, bovine serum albumin; **CCCP**, carbonyl cyanide *m*-chlorophenylhydrazone; **$C_{10}E_6$**, hexaethyleneglycol mono-*n*-decyl ether; **$C_{10}E_8$**, octaethyleneglycol mono-*n*-decyl ether; **$C_{12}E_6$**, hexaethyleneglycol mono-*n*-dodecyl ether; **$C_{12}E_8$**, octaethyleneglycol mono-*n*-dodecyl ether; **CHAPS**, 3-((3-cholamidopropyl)dimethylammonio)-1-propane-sulfonate; **CHAPSO**, 3((3-cholamidopropyl)dimethylammonio)-2-hydroxy-1-propane-sulfonate; **CMC**, critical micelle concentration; **CL**, cardiolipin; **cryo-TEM**, cryo-transmission electron microscopy; **CSPD**, disodium 3-(4-methoxyspiro{1,2,-dioxetane-3,2'-(5'- chloro)tricyclo-[3.3.1.1]decan}-4-yl)phenyl phosphate; **CTAB**, cetyltrimethylammonium bromide; **DDAO**, N-dodecyl-N,N-dimethylamine-N-oxide (or lauryldimethylamine-*n*-oxide, **LDAO**); **DDM**, *n*-dodecyl-β-D-maltoside; **DM**, *n*-decyl-β-D-maltoside; **DTT**, dithiothreitol; **IPTG**, isopropyl-β-D-thiogalactopyranoside; **kb**, kilobase(s); **K_d**, dissociation constant; **Lactose**, 4-O-ß-galactopyranosyl-D-glucose; **Melibiose**, 6-O-α-galactopyranosyl-D-glucose; **MPB**, 3-(N-maleimidylpropionyl)-biocytin; **Methyl-α-Gal**, methyl-α-D-galactopyranoside; **n.d.**, not determined; **NT**, not transported; **NTA**, nitrilotriacetic acid; **OG** (**octylglucoside**), *n*-octyl-β-D-glucopyranoside; **PAGE**, polyacrylamide gel electrophoresis; **PBS**, phosphate buffered saline; **PC**, phosphatidylcholine; **PCR**, polymerase chain reaction; **PE**, phosphatidyl-ethanolamine; **PEP**, phospho*enol*pyruvate; **PG**, phosphatidylglycerol; **PL**, phospholipids; **PS**, phosphatidylserine; **PTS**, phosphotransferase system; **PVDF**, polyvinylidene difluoride; ***R_e***, effective detergent/lipid molar ratio; ***R_{sat}***, effective detergent/lipid molar ratio for bilayer saturation; ***R_{sol}***, effective detergent/lipid molar ratio for bilayer solubilization; **SDS**, sodium dodecyl sulfate; **TEM**, transmission electron microscopy; **TID**, 3-(trifluoromethyl)-3-(*m*-iodophenyl)diazirine; **TMG**, methyl-β-D-thiogalactopyranoside; **Triton X-100**; poly(ethylene glycol) *p*-isooctylphenyl ether